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NEWS 12 MAY 11 BEILESTEIN substance information now available on
STN Easy
NEWS 12 MAY 14 DCGENE, PCTGEN and USCENE enhanced with impor-

NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased limits for exact sequence match searches and introduction of free HIT display format

NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal status data

NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in records back to 1992

NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching
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NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009

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FILE COVERS 1907 - 17 Jun 2009 VOL 150 ISS 25

FILE LAST UPDATED: 16 Jun 2009 (20090616/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s GC33 and (GPC-3 or glypican 3)

7 GC33

15004 GPC

85 GPCS

15053 GPC

(GPC OR GPCS)

7644384 3

73 GPC-3

(GPC(W)3)

716 GLYPICAN

345 GLYPICANS

776 GLYPICAN

(GLYPICAN OR GLYPICANS)

7644384 3

299 GLYPICAN 3

(GLYPICAN(W)3)

L1 3 GC33 AND (GPC-3 OR GLYPICAN 3)

=> duplicate remove

ENTER L# LIST OR (END):L1

PROCESSING COMPLETED FOR L1

L2 3 DUPLICATE REMOVE L1 (0 DUPLICATES REMOVED)

=> d L2 bib abs 1-3

L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2008:1471243 CAPLUS

DN 150:53942

TI Anti-glypican 3 antibodies cause ADCC against human hepatocellular carcinoma cells

AU Nakano, Kiyotaka; Orita, Tetsuro; Nezu, Junichi; Yoshino, Takeshi; Ohizumi, Iwao; Sugimoto, Masamichi; Furugaki, Koh; Kinoshita, Yasuko; Ishiguro, Takahiro; Hamakubo, Takao; Kodama, Tatsuhiko; Aburatani, Hiroyuki; Yamada-Okabe, Hisafumi; Tsuchiya, Masayuki

CS Research Laboratories, Chugai Pharmaceutical Co. Ltd., 1-135 Komakado, Gotemba, Shizuoka, 412-8513, Japan

SO Biochemical and Biophysical Research Communications (2009), 378(2), 279-284

CODEN: BBRCA9; ISSN: 0006-291X

PB Elsevier B.V.

DT Journal

LA English

AB Glycan 3 (GPC3), a GPI-anchored heparan sulfate

proteoglycan, is expressed in the majority of hepatocellular carcinoma (HCC) tissues. Using MRL/lpr mice, the authors successfully generated a series of anti-GPC3 monoclonal antibodies (mAbs). GPC3 was partially cleaved between Arg358 and Ser359, generating a C-terminal 30-kDa fragment and an N-terminal 40-kDa fragment. All mAbs that induced antibody-dependent cellular cytotoxicity (ADCC) and/or complement-dependent cytotoxicity (CDC) against cells expressing GPC3 recognized the 30-kDa fragment, indicating that the C-terminal region of GPC3 serves as an epitope for mAb with ADCC and/or CDC inducing activities. Chimeric mAbs with Fc replaced by human IgG1 were created from GC33, one of the mAbs that reacted with the C-terminal 30-kDa fragment. Chimeric GC33 induced not only ADCC against GPC3-pos. human HCC cells but also was efficacious against the Huh-7 human HCC xenograft. Thus, mAbs against the C-terminal 30-kDa fragment such as GC33 are useful in therapy targeting HCC.

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2008:1433769 CAPLUS

DN 150:18894

TI Anti-Glycan 3 Antibody as a Potential Antitumor Agent for Human Liver Cancer

AU Ishiguro, Takahiro; Sugimoto, Masamichi; Kinoshita, Yasuko; Miyazaki, Yoko; Nakano, Kiyotaka; Tsunoda, Hiroyuki; Sugo, Izumi; Ohizumi, Iwao; Aburatani, Hiroyuki; Hamakubo, Takao; Kodama, Tatsuhiko; Tsuchiya, Masayuki; Yamada-Okabe, Hisafumi

CS Pharmaceutical Research Department, Chugai Pharmaceutical Co. Ltd., Kanagawa, 412-8513, Japan

SO Cancer Research (2008), 68(23), 9832-9838

CODEN: CNREA8; ISSN: 0008-5472

PB American Association for Cancer Research

DT Journal

LA English

AB Human glycan 3 (GPC3) is preferentially expressed in the tumor tissues of liver cancer patients. In this study, we obtained a monoclonal antibody (mAb) against the COOH-terminal part of GPC3, which induced antibody-dependent cellular cytotoxicity (ADCC). The mAb, designated GC33, exhibited marked tumor growth inhibition of s.c. transplanted Hep G2 and HuH-7 xenografts that expressed GPC3 but did not inhibit growth of the SK-HEP-1 that was neg. for GPC3. GC33 was efficacious even in an orthotopic model; it markedly reduced the blood

.alpha.-fetoprotein levels of mice intrahepatically transplanted with Hep G2 cells. Humanized GC33 (hGC33) was as efficacious as GC33 against the Hep G2 xenograft, but hGC33 lacking carbohydrate moieties caused neither ADCC nor tumor growth inhibition. Depletion of CD56+ cells from human peripheral blood mononuclear cells markedly abrogated the ADCC caused by hGC33. The results show that the antitumor activity of hGC33 is mainly attributable to ADCC, and in human, natural killer cell-mediated ADCC is one possible mechanism of the antitumor effects by GC33. hGC33 will provide a novel treatment option for liver cancer patients with GPC3-pos. tumors.

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2006:193650 CAPLUS

DN 144:267250

TI Anti-glypican 3 antibody for preventing liver tumor recurrence

IN Kinoshita, Yasuko; Sugimoto, Masamichi; Okabe, Hisafumi

PA Chugai Seiyaku Kabushiki Kaisha, Japan

SO PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2006022407	A1	20060302	WO 2005-JP15607	20050823
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

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EP 1800693	A1	20070627	EP 2005-780979	20050823
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R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 101014367	A	20070808	CN 2005-80028610	20050823
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KR 2007050963	A	20070516	KR 2007-705914	20070314
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US 20070269444 A1 20071122 US 2007-574091 20070611

PRAI JP 2004-244273 A 20040824

JP 2005-90945 A 20050328

WO 2005-JP15607 W 20050823

AB Described is an anti-glypican 3 antibody administered after the removal of cancer, esp. liver tumor, to prevent tumor recurrence. This anticancer agent is preferably employed in the case where glypican 3 is expressed in the removed liver cancer cells. Anti-glypican 3 antibody is useful in monitoring tumor cells in patients after removal of the tumor. Anti-glypican 3 antibody GC33 decreased the concn. of serum AFP (.alpha.-fetoprotein) in mouse liver tumor models induced by injection of HepG2 cells into membrana dermalis of livers.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

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